

SUPPLEMENTARY Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/617,075
				Filing Date	July 9, 2003
				First Named Inventor:	Johnson et al.
				Art Unit	2818 2653
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	42P13967D2
Sheet	1	of	2		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
DNH	1.	US-	3,896,420	07/22/1975	Szabo	
DNH	2.	US-	4,101,976	07/18/1978	Castro et al.	
DNH	3.	US-	4,459,682	07/10/1984	Mossberg	
DNH	4.	US-	4,670,854	06/02/1987	Mossberg et al.	
DNH	5.	US-	5,204,770	04/20/1993	Kachru et al.	
DNH	6.	US-	5,276,637	01/04/1994	Mossberg	
DNH	7.	US-	5,369,665	11/29/1994	Bai et al.	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	<i>Huber, Paul</i>	Date Considered	<i>5/31/05</i>
--------------------	--------------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(use as many sheets as necessary)

Complete If Known

Application Number	10/617,075
Filing Date	July 9, 2003
First Named Inventor:	Johnson et al.
Art Unit	2818 2653
Examiner Name	Not Yet Assigned
Attorney Docket Number	42P13967D2

2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
Hub	8.	BABBITT, W.R., et al., "Quasi-Two-Dimensional Time-Domain Color Memories: Process Limitations and Potentials," J. Opt. Soc. Am. B 11: 1948-1953 (1994)	
Hub	9.	EQUALL, R.W., et al., "Ultraslow Optical Dephasing in Eu ³⁺ :Y ₂ SiO ₅ ," Phys. Rev. Lett. 72:2179-2182 (1994)	
Hub	10.	HUANG, J., et al., "Excess Dephasing in Photon-Echo Experiments Arising from Excitation-Induced Electronic Level Shifts," Phys. Rev. Lett. 63:78-81 (1989)	
Hub	11.	LIN, H., et al., "Demonstration of 8-Gbit/in. ² Areal Storage Density Based on Swept-Carrier Frequency-Selective Optical Memory," Optics Letters 20:1658-1660 (1995)	
Hub	12.	MACFARLANE, R.M., "Photon-Echo Measurements on the Trivalent Thulium Ion," Optics Letters 18:1958-1960 (1993)	
Hub	13.	MOSSBERG, T.W., "Time-Domain Frequency-Selective Optical Data Storage," Optics Letters 7:77-79 (1982)	
Hub	14.	MOSSBERG, T.W., "Swept-Carrier Time-Domain Optical Memory," Optics Letters 17:535-537 (1992)	

Examiner Signature	Huber Rev 1	Date Considered	5/31/05
--------------------	-------------	-----------------	---------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
			Application Number	10/617,075
			Filing Date	July 9, 2003
			First Named Inventor:	Johnson et al.
			Art Unit	2818 2653
			Examiner Name	Not Yet Assigned
			Attorney Docket Number	42P13967D2
Sheet	1	of		
NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ²
PH	1.	RENN, A., et al., "Spectral Hole Burning And Hologram Storage," Applied Optics, Vol. 26, No. 19, (October 1, 1987), pp. 4040-4042.		
PH	2.	MITSUNAGA, M., et al., "Time- and Frequency-Domain Hybrid Optical Memory: 1.6-kbit Data Storage in Eu ³⁺ :Y ₂ SiO ₅ ," Optics Letters, Vol. 16, No. 23, (December 1, 1991), pp. 1890-1892.		
PH	3.	YANO, R., et al., "Nonlinear Laser Spectroscopy of Eu ³⁺ :Y ₂ SiO ₅ And Its Application To Time-Domain Optical Memory," J. Opt. Soc. Am. B, Vol. 9, No. 6, (June 1992), pp. 992-997.		
PH	4.	LIN, H., et al., "Heterodyne Detection of Swept-Carrier Frequency-Selective Optical Memory Signals," Optics Letters, Vol. 20, No. 8, (April 15, 1995), pp. 928-930.		

Examiner Signature	Huber Paul	Date Considered	5/31/05
--------------------	------------	-----------------	---------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.